

## CLAIMS

1. An electromagnetic wave reception device comprising:

an input reception portion for detecting an input electromagnetic wave transmitted from a transmission terminal at a predetermined timing and receiving the input electromagnetic wave;

a lock control portion for unlocking or locking a lock mechanism according to the input electromagnetic wave received by the input reception portion; and

a timing change portion for changing a timing at which the input reception portion detects the input electromagnetic wave.

2. The electromagnetic wave reception device of claim 1, wherein the timing change portion changes the timing according to a time zone.

3. The electromagnetic wave reception device of claim 1, further comprising:

a position detection portion for detecting a position of the electromagnetic wave reception device;

wherein the timing change portion changes the timing according to the position detected by the position detection portion.

4. The electromagnetic wave reception device of claim 1, further comprising:

a history information generation portion for generating history information, which is information on a history of reception of the input electromagnetic wave by the input reception portion;

wherein the timing change portion changes the timing

according to the history information.

5        5. The electromagnetic wave reception device of claim 4, wherein the history information generation portion generates history information of time when the input electromagnetic wave is received.

6. The electromagnetic wave reception device of claim 4, further comprising:  
10        a position detection portion for detecting a position of the electromagnetic wave reception device;

      wherein the history information generation portion generates history information of a position where the input electromagnetic wave is received, according to the position detected by the position detection portion.  
15

7. The electromagnetic wave reception device of any one of claims 1 through 6, wherein at least the input reception portion is powered by a battery.

20        8. A vehicle comprising the electromagnetic wave reception device of any one of claims 1 through 6.

9. The vehicle of claim 8, wherein at least the input reception portion is powered by a battery.  
25

10. An electromagnetic wave transmission device comprising:  
      a switch;  
      a transmission portion for transmitting an

electromagnetic wave for a predetermined period of time when the switch is turned on; and

5       a transmission control portion for controlling so as to transmit a second electromagnetic wave for a longer period of time than a first electromagnetic wave when the switch is turned on at least twice within a predetermined period of time.

11. A keyless entry system comprising:

10       an electromagnetic wave reception device installed in a vehicle comprising:

      an input reception portion for detecting an input electromagnetic wave transmitted from a transmission terminal at a predetermined timing and receiving the input electromagnetic wave;

15       a lock control portion for unlocking or locking a lock mechanism according to the input electromagnetic wave received by the input reception portion; and

      a timing change portion for changing a timing at which the input reception portion detects the input electromagnetic wave; and

20       an electromagnetic wave transmission device for transmitting a signal to the electromagnetic wave reception device.

12. The keyless entry system of claim 11, wherein

25       the electromagnetic wave transmission device comprising:  
      a switch;

      a transmission portion for transmitting an electromagnetic wave for a predetermined period of time when the switch is turned on; and

a transmission control portion for controlling so as to transmit a second electromagnetic wave for a longer period of time than a first electromagnetic wave when the switch is turned on at least twice within a predetermined period of time.